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(54) Title: STEP SINUSOIDAL VOLTAGE CONTROLLING METHOD FOR HID, FLUORESCENT AND INCANDESCENT LIGHT DIMMING APPLICATIONS

(57) Abstract: A step voltage controlling device and method for High Intensity Discharge (HID) light dimming applications includes an autotransformer, voltage sensing block, current sensing block, pulse forming block, microprocessor control unit (MCU) block and plural three switch blocks which allows an instantaneous variation of the voltage applied to the load, which is controlled to be synchronized with the load current zero crossing point.



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